

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JPW

Applicant: Alexander A. Maltsev et al.

Title: RECEIVER AND METHOD TO DETECT AND SYNCHRONIZE WITH A SYMBOL
BOUNDARY OF AN OFDM SYMBOL

Docket No.: 884.781US1

Filed: September 30, 2003

Examiner: Unknown



Serial No.: 10/675213

Due Date: N/A

Group Art Unit: 2661

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ A Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 10 cited documents (Copies of US Patent/Publication documents not enclosed; application filed after June 30, 2003).
- ☒ Copy of International Search Report in PCT/RU03/00124, mailed March 15, 2004 (4 pages).
- ☒ Copy of International Search Report in PCT/RU03/00126, mailed March 15, 2004 (4 pages).

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer Number 21186

By: Ann M. McCrackin
Atty: Ann M. McCrackin
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 15 day of June, 2004.

KACIA LEE
Name

Kacia Lee
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
(GENERAL)



S/N 10/675213

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Alexander A. Maltsev et al.	Examiner:	Unknown
Serial No.:	10/675213	Group Art Unit:	2661
Filed:	September 30, 2003	Docket:	884.781US1
Title:	RECEIVER AND METHOD TO DETECT AND SYNCHRONIZE WITH A SYMBOL BOUNDARY OF AN OFDM SYMBOL		
Assignee:	Intel Corporation	Customer No:	21186

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(1) and 37 C.F.R. §1.97(e)(1), Applicants state that certain of the items of information contained in the Supplemental Information Disclosure Statement were first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Supplemental Information Disclosure Statement. The remaining items of information were first cited in a communication from a foreign patent office in a non-counterpart foreign application not more than three months prior to the filing of the Supplemental Information Disclosure Statement. Copies of the relevant International Search Reports, in PCT/RU03/00124 and PCT/RU03/00126, both mailed March 15, 2004, are also enclosed.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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Serial No : 10/675213

Dkt: 884.781US1 (INTEL)

Filing Date: September 30, 2003

Title: RECEIVER AND METHOD TO DETECT AND SYNCHRONIZE WITH A SYMBOL BOUNDARY OF AN OFDM SYMBOL

Assignee: Intel Corporation

The present application is either a U.S. national patent application filed after June 30, 2003 or an international application that entered the national stage under 35 U.S.C. § 371 after June 30, 2003. Thus, Applicant believes that the U.S. Patent & Trademark Office has waived the requirement under 37 C.F.R. 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication. The waiver is provided in a pre-OG notice from the U.S. Patent & Trademark Office entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003" and dated July 11, 2003. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

ALEXANDER A. MALTSEV ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
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Date June 14, 2004

By Ann M. McCrackin
Ann M. McCrackin
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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 15 day of June, 2004.

KACIA LEE
Name

Kacia Lee
Signature

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)



Sheet 1 of 1

Complete if Known

Application Number	10/675213
Filing Date	September 30, 2003
First Named Inventor	Maltsev, Alexander
Group Art Unit	2661
Examiner Name	Unknown

Attorney Docket No: 884.781US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
	US-2002/0181509-A1	12/05/2002	Mody, A. N., et al.	370	480	04/24/2002
	US-2004/0001563-A1	01/01/2004	Scarpa, C. G.	375	326	06/28/2002

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
✓	EP-0645917A2	03/29/1995	Tsuda, H., et al.	H04L	27/22	
✓	EP-0825737A1	02/25/1998	Sawahashi, M., et al.	H04J	13/00	
✓	EP-0933903A2	08/04/1999	Seki, T., et al.	H04L	27/26	
✓	EP-1005204A2	05/31/2000	Sudo, H.	H04L	27/26	
✓	EP-1071251A2	01/24/2001	Onizawa, T., et al.	H04L	27/26	
✓	EP-1083683A2	03/14/2001	Suzuki, M., et al.	H04B	7/26	
✓	EP-1168745A1	01/02/2002	Doi, M	H04L	27/22	
✓	EP-1220505A2	07/03/2002	Kim, D	H04L	27/26	
✓	EP-1313283A2	05/21/2003	You, C., et al.	H04L	27/26	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		KELLER, T., et al., "Orthogonal Frequency Division Multiplex Synchronization Techniques for Frequency-Selective Fading Channels", <u>IEEE Journal on Selected Areas in Communications</u> , Vol. 19, no. 6, (June 2001), 999-1008	

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. † Applicant's unique citation designation number (optional) ‡ Applicant is to place a check mark here if English language Translation is attached